Input Set : A:\Pto.amc

```
4 <110> APPLICANT: LITTLE, MELVYN
         KIPRIYANOV, SERGEY
         MOLDENHAUER, GERHARD
         DEUTSCHES KREBSFORSCHUNGSZEUTRUM
 9 <120> TITLE OF INVENTION: MUTATED OKT3 ANTIBODY
12 <130> FILE REFERENCE: 035280047US00
14 <140> CURRENT APPLICATION NUMBER: 09/424,705
15 <141> CURRENT FILING DATE: 2000-06-02
17 <150> PRIOR APPLICATION NUMBER: PCT/DE98/01409
18 <151> PRIOR FILING DATE: 1998-05-22
20 <160> NUMBER OF SEQ ID NOS: 7
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                                 Met Lys Tyr Leu Leu Pro Thr Ala Ala
38 get gge ttg etg etg gea get eag eeg gee atg geg eag gtg eag
                                                                         102
39 Ala Gly Leu Leu Leu Ala Ala Gln Pro Ala Met Ala Gln Val Gln
40 10
                       15
                                            20
42 ctg cag cag tot ggg got gaa ctg gca aga cot ggg goo toa gtg aag
                                                                         150
43 Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala Ser Val Lys
                    30
                                        35
46 atg tcc tgc aag gct tct ggc tac acc ttt act agg tac acg atg cac
                                                                         198
47 Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr Thr Met His
48
                45
50 tgg gta aaa cag agg cct gga cag ggt ctg gaa tgg att gga tac att
                                                                         246
51 Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Tyr Ile
                                65
54 aat oot ago ogt ggt tat act aat tac aat cag aag tto aag gac aag
                                                                         294
55 Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Asn Gln Lys Phe Lys Asp Lys
58 gcc aca ttg act aca gac aaa tcc tcc agc aca gcc tac atg caa ctg
                                                                         342
59 Ala Thr Leu Thr Thr Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln Leu
                       95
                                           100
62 agc agc ctg aca tct gag gac tct gca gtc tat tac tgt gca aga tat
                                                                         390
63 Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Tyr
                   110
                                       115
66 tat gat gat cat tac ago ott gao tac tgg ggo caa ggo acc act oto
67 Tyr Asp Asp His Tyr Ser Leu Asp Tyr Trp Gly Gln Gly Thr Thr Leu
              125
                                   130
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Input Set : A:\Pto.amc

| 70 aca gtc tcc tca gcc aaa aca aca ccc aag ctt gaa gaa ggt gaa ttt<br>71 Thr Val Ser Ser Ala Lys Thr Thr Pro Lys Leu Glu Glu Glu Glu Phe<br>72 140 145 150      | 486 |
|---|-----|
| 74 tca gaa gca cgc gta gat atc gtg ctc act cag tct cca gca atc atg<br>75 Ser Glu Ala Arg Val Asp Ile Val Leu Thr Gln Ser Pro Ala Ile Met<br>76 155 160 165      | 534 |
| 78 tct gca tct cca ggg gag aag gtc acc atg acc tgc agt gcc agc tca<br>79 Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser<br>80 170 180 185      | 582 |
| 82 agt gta agt tac atg aac tgg tac cag cag aag tca ggc acc tcc ccc 83 Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro 84 190 195 200            | 630 |
| 86 aaa aga tgg att tat gac aca tcc aaa ctg gct tct gga gtc cct gct 87 Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala 88 205 210 215            | 678 |
| 90 cac ttc agg ggc agt ggg tct ggg acc tct tac tct ctc aca atc agc<br>91 His Phe Arg Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser<br>92 220 225 230      | 726 |
| 94 ggc atg gag gct gaa gat gct gcc act tat tac tgc cag cag tgg agt<br>95 Gly Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser<br>96 235 240 245      | 774 |
| 98 agt aac cca ttc acg ttc ggc tcg ggg aca aag ttg gaa ata aac cgg<br>99 Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Asn Arg<br>100 250 255 260 265 | 822 |
| 102 gct gat act gca cca act gga tcc gaa caa aag ctg atc tca gaa gaa 103 Ala Asp Thr Ala Pro Thr Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu 104 270 275 280         | 870 |
| 106 gac cta aac tca cat cac cat cac cat cac taatctaga<br>107 Asp Leu Asn Ser His His His His His<br>108 285 290   | 909 |
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| 113 <212> TYPE: PRT   |     |
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| 119 Ala Gln Pro Ala Met Ala Gln Val Gln Leu Gln Gln Ser Gly Ala Glu 120 20 25 30  |     |
| 121 Leu Ala Arg Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly 122 35 40 45  |     |
| 123 Tyr Thr Phe Thr Arg Tyr Thr Met His Trp Val Lys Gln Arg Pro Gly 124 50 55 60  |     |
| 125 Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr<br>126 65 70 75 80  |     |
| 127 Asn Tyr Asn Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Thr Asp Lys   |     |
| 129 Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp 130 100 105 110   |     |

Input Set : A:\Pto.amc

| 131<br>132 | Ser  | Ala        | Val<br>115 | Tyr        | Tyr        | Cys          | Ala        | Arg<br>120 | Tyr        | Tyr        | Asp | Asp        | His<br>125 | Tyr        | Ser        | Leu  |     |
|------------|--|------------|------------|------------|------------|--------------|------------|------------|------------|------------|-----|------------|------------|------------|------------|------|-----|
|            | Asp  | Tyr<br>130 | Trp        | Gly        | Gln        | Gly          | Thr<br>135 | Thr        | Leu        | Thr        | Val | Ser<br>140 | Ser        | Ala        | Lys        | Thr  |     |
| 135        | Thr  | Pro        | Lys        | Leu        | Glu        |              |            | Glu        | Phe        | Ser        |     |            | Arg        | Val        | Asp        |      |     |
|            | 145  |            |            |            |            | 150          | _          | _          |            |            | 155 |            |            |            |            | 160  |     |
| 137<br>138 | Val  | Leu        | Thr        | Gln        | Ser<br>165 | Pro          | Ala        | Ile        | Met        | Ser<br>170 | Ala | Ser        | Pro        |            | Glu<br>175 | Lys  |     |
| 139<br>140 | Val  | Thr        | Met        | Thr<br>180 | Cys        | Ser          | Ala        | Ser        | Ser<br>185 | Ser        | Val | Ser        | Tyr        | Met<br>190 | Asn        | Trp  |     |
| 141        | Tyr  | Gln        |            |            | Ser        | Gly          | Thr        | Ser        |            | Lys        | Arg | Trp        | Ile        |            | Asp        | Thr  |     |
| 142        |  |            | 195        |            |            |              |            | 200        |            |            |     |            | 205        |            |            |      |     |
| 143<br>144 | Ser  | Lys<br>210 | Leu        | Ala        | Ser        | Gly          | Val<br>215 | Pro        | Ala        | His        | Phe | Arg<br>220 | Gly        | Ser        | Gly        | Ser  |     |
|            | Gly  | Thr        | Ser        | Tvr        | Ser        | Leu          |            | Tle        | Ser        | Glv        | Met |            | Δla        | Glu        | Asn        | Δla  |     |
|            | 225  |            |            | -1-        | 001        | 230          |            |            | 501        | 011        | 235 | 014        |            | 014        | пор        | 240  |     |
|            | Ala  | Thr        | Tvr        | Ψvr        | Cvs        |              | Gln        | Trp        | Ser        | Ser        |     | Pro        | Phe        | Thr        | Phe        |      |     |
| 148        |  |            | -1-        | -1-        | 245        | <b>01</b> 1. | 01         |            | 001        | 250        |     | 110        | - 110      | 1111       | 255        | OLY. |     |
|            | Ser  | Glv        | Thr        | Lvs        |            | Glu          | Ile        | Asn        | Ara        |            | Asp | Thr        | Ala        | Pro        |            | Glv  |     |
| 150        |  | _          |            | 260        |            |              |            |            | 265        |            |     |            |            | 270        |            | 1    |     |
| 151        | Ser  | Glu        | Gln        | Lys        | Leu        | Ile          | Ser        | Glu        | Glu        | Asp        | Leu | Asn        | Ser        |            | His        | His  |     |
| 152        |  |            | 275        | _          |            |              |            | 280        |            | -          |     |            | 285        |            |            |      |     |
| 153        | His  | His        | His        |            |            |              |            |            |            |            |     |            |            |            |            |      |     |
| 154 290    |  |            |            |            |            |              |            |            |            |            |     |            |            |            |            |      |     |
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| 167        | 166 gaattcatta aagaggagaa attaacc atg aaa tac cta ttg cct acg gca gcc 54 |            |            |            |            |              |            |            |            |            |     |            |            |            |            |      |     |
| 168        |  |            |            |            |            |              |            |            |            |            |     |            |            |            |            |      |     |
|            | gct  | aac        | ttα        | cta        | cta        | cta          | aca        |            |            | cca        | aaa |            |            | a = a      | a+a        | 030  | 102 |
|            | Ala  |            |            |            |            |              |            |            |            |            |     |            |            |            |            |      | 102 |
| 172        | 10   |            | Lou        | 100        | Dea        | 15           |            |            | 0111       | 110        | 20  | ricc       | niu        | 0111       | Vul        | 25   |     |
|            | ctg  | caq        | саσ        | tet        | aaa        |              | gaa        | ct.a       | αca        | аσа        |     | aaa        | acc        | tca        | ata        |      | 150 |
|            | Leu  |            |            |            |            |              |            |            |            |            |     |            |            |            |            |      | 130 |
| 176        |  | _          |            |            | 30         |              |            |            |            | 35         |     | V-1        |            | -          | 40         | -, - |     |
| 178        | atg  | tcc        | tqc        | aaq        | qct        | tct          | qqc        | tac        | acc        | ttt        | act | agg        | tac        | acq        |            | cac  | 198 |
|            | Met  |            |            |            |            |              |            |            |            |            |     |            |            | _          | _          |      |     |
| 180        |  |            | _          | 45         |            |              | _          | _          | 50         |            |     | -          | -          | 55         |            |      |     |
| 182        | tgg  | gta        | aaa        | cag        | agg        | cct          | gga        | cag        | ggt        | ctg        | gaa | tgg        | att        | gga        | tac        | att  | 246 |
|            | Trp  |            |            |            |            |              |            |            |            |            |     |            |            |            |            |      |     |
| 184        |  |            | 60         |            |            |              |            | 65         |            |            |     |            | 70         |            |            |      |     |
|            | aat  |            |            |            |            |              |            |            |            |            |     |            |            |            |            |      | 294 |
| 187        | Asn  | Pro        | Ser        | Arg        | Gly        | Tyr          | Thr        | Asn        | Tyr        | Asn        | Gln | Lys        | Phe        | Lys        | Asp        | Lys  |     |
|            |  |            |            |            |            |              |            |            |            |            |     |            |            |            |            |      |     |

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/424,705

DATE: 03/26/2001
TIME: 09:02:29

Input Set : A:\Pto.amc

| 188 |                              | 75    |      |      |      |     | 80  |      |            |      |          | 85           |     |             |     |     |     | _ |
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|     | gac                          | _     | -    |      | _    |     |     | _    |            |      |          | _            |     | -           |     | _   | 34  | 2 |
|     | Asp                          | rys   | Ala  | Thr  | Leu  |     | Thr | Asp  | гÀг        | Ser  |          | ser          | Thr | Ala         | туr |     |     |   |
| 192 | 90                           |       |      |      |      | 95  |     |      |            |      | 100      |              |     |             |     | 105 | 2.0 | _ |
|     | caa                          | _     | _    | _    | _    |     |     |      | -          |      | -        | _            |     |             | -   | -   | 39  | U |
| 195 | Gln                          | Leu   | ser  | ser  |      | Thr | ser | GIU  | Asp        |      | Ата      | val          | туr | Tyr         | _   | Ата |     |   |
|     |                              | + - + | +-+  |      | 110  |     | +   |      | ~++        | 115  | <b>+</b> | <b>+</b> ~ ~ |     |             | 120 |     | 4.2 | 0 |
|     | aga                          |       |      | _    | -    |     |     | -    |            | _    |          |              |     |             |     |     | 43  | ō |
| 200 | Arg                          | тут   | тут  | 125  | Asp  | птѕ | ıyı | ser  | 130        | ASP  | тут      | пр           | СТА | 135         | GIY | THE |     |   |
|     | act                          | ata   | 202  |      | taa  | toa | acc | 222  |            | 202  | ccc      | 220          | ct+ |             | aat | a+  | 48  | 6 |
|     | Thr                          |       |      | -    |      |     | -   |      |            |      |          | _            |     |             |     | _   | 40  | U |
| 203 | 1111                         | пец   | 140  | Val  | 261  | 261 | Ата | 145  | 1111       | TILL | FIO      | цуз          | 150 | GLY         | GIY | АЗР |     |   |
|     | atc                          | tta   |      | acc  | caa  | act | cca |      | tct        | tta  | act      | ata          |     | cta         | aaa | can | 53  | Δ |
|     | Ile                          | _     |      |      |      |     |     | _    |            | -    | -        |              |     |             |     | _   | 33  | 7 |
| 208 |                              | 155   |      |      | 01   |     | 160 |      | 001        | 204  |          | 165          | 001 | Lou         | 011 | 01  |     |   |
|     | agg                          |       | acc  | atc  | tcc  | tac |     | qcc  | agc        | caa  | agt      |              | gat | tat         | gat | aat | 58  | 2 |
|     | Arg                          |       |      |      |      |     |     |      |            |      | -        | -            | _   |             | _   |     |     |   |
|     | 170                          |       |      |      |      | 175 | -   |      |            |      | 180      |              | •   | •           | _   | 185 |     |   |
| 214 | gat                          | agt   | tat  | ttg  | aac  | tgg | tac | caa  | cag        | att  | cca      | qqa          | cag | cca         | ccc | aaa | 63  | 0 |
| 215 | Asp                          | Ser   | Tyr  | Leu  | Asn  | Trp | Tyr | Gln  | Gln        | Ile  | Pro      | Gly          | Gln | Pro         | Pro | Lys |     |   |
| 216 |                              |       |      |      | 190  |     |     |      |            | 195  |          | _            |     |             | 200 | _   |     |   |
| 218 | ctc                          | ctc   | atc  | tat  | gat  | gca | tcc | aat  | cta        | gtt  | tct      | ggg          | atc | cca         | ccc | agg | 67  | 8 |
| 219 | Leu                          | Leu   | Ile  | Tyr  | Asp  | Ala | Ser | Asn  | Leu        | Val  | Ser      | Gly          | Ile | Pro         | Pro | Arg |     |   |
| 220 |                              |       |      | 205  |      |     |     |      | 210        |      |          |              |     | 215         |     |     |     |   |
|     | ttt                          |       |      |      |      |     |     |      |            |      |          |              |     |             |     |     | 72  | 6 |
|     | Phe                          | Ser   | -    | Ser  | Gly  | Ser | Gly |      | Asp        | Phe  | Thr      | Leu          |     | Ile         | His | Pro |     |   |
| 224 |                              |       | 220  |      |      |     |     | 225  |            |      |          |              | 230 |             |     |     |     |   |
|     | gtg                          |       | _    |      | _    |     | -   |      |            |      | _        | _            |     | _           |     |     | 77  | 4 |
|     | Val                          |       | Lys  | vaı  | Asp  | Ата |     | Thr  | Tyr        | His  | Cys      |              | GIn | Ser         | Thr | GIu |     |   |
| 228 | ~~+                          | 235   |      |      |      |     | 240 |      |            |      |          | 245          |     |             |     |     | 0.0 | _ |
|     | gat                          | -     |      | _    |      |     |     |      |            | -    | _        | -            |     |             |     | _   | 82  | 2 |
| 232 | Asp                          | PIU   | тър  | 1111 | Pile | 255 | GIA | GIA  | TIII       | цуъ  | 260      | GIU          | 116 | гуу         | AIG | 265 |     |   |
|     | gat                          | act   | aca  | acc  | aat  |     | too | ma a | <b>722</b> | 220  |          | 2+0          | +   | <b>~</b> 22 | maa |     | 87  | Λ |
|     | Asp                          |       |      |      |      |     |     |      |            |      |          |              |     |             |     |     | 07  | U |
| 236 | пър                          | AIU   | AIU  | niu  | 270  | Gry | Ser | Gru  | GIII       | 275  | пец      | 110          | Ser | Giu         | 280 | ASP |     |   |
|     | cta                          | aac   | tca  | cat  |      | cat | cac | cat  | cac        |      | gato     | ·†           |     |             | 200 |     | 90  | 6 |
|     | Leu                          |       |      |      |      |     |     |      |            | cuuc | · yu c   |              |     |             |     |     | ,,, | • |
| 240 |                              |       |      | 285  |      |     |     |      | 290        |      |          |              |     |             |     |     |     |   |
|     | <210                         | > SE  | O II | -    | 4    |     |     |      |            |      |          |              |     |             |     |     |     |   |
|     | <211                         |       |      |      |      |     |     |      |            |      |          |              |     |             |     |     |     |   |
| 245 | <212                         | > TY  | PE:  | PRT  |      |     |     |      |            |      |          |              |     |             |     |     |     |   |
| 246 | <213> ORGANISM: Homo sapiens |       |      |      |      |     |     |      |            |      |          |              |     |             |     |     |     |   |
|     | <400                         |       |      |      |      | -   |     |      |            |      |          |              |     |             |     |     |     |   |
| 249 | Met                          | Lys   | Tyr  | Leu  | Leu  | Pro | Thr | Ala  | Ala        | Ala  | Gly      | Leu          | Leu | Leu         | Leu | Ala |     |   |
| 250 | 1                            |       |      |      | 5    |     |     |      |            | 10   |          |              |     |             | 15  |     |     |   |
|     | Ala                          | Gln   | Pro  | Ala  | Met  | Ala | Gln | Val  |            | Leu  | Gln      | Gln          | Ser | Gly         | Ala | Glu |     |   |
| 252 |                              |       |      | 20   |      |     |     |      | 25         |      |          |              |     | 30          |     |     |     |   |
|     |                              |       |      |      |      |     |     |      |            |      |          |              |     |             |     |     |     |   |

Input Set : A:\Pto.amc

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253 Leu Ala Arg Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly
255 Tyr Thr Phe Thr Arg Tyr Thr Met His Trp Val Lys Gln Arg Pro Gly
                            55
257 Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr
258 65
                        70
                                            75
259 Asn Tyr Asn Gln Lys Phe Lys Asp Lys Asp Lys Ala Thr Leu Thr Thr
                    85
                                        90
                                                            95
261 Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser
                100
                                    105
263 Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Tyr Tyr Asp Asp His Tyr
            115
                                120
                                                    125
265 Ser Leu Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Ala
       130
                            135
267 Lys Thr Thr Pro Lys Leu Gly Gly Asp Ile Leu Leu Thr Gln Thr Pro
                        150
                                            155
269 Ala Ser Leu Ala Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Lys
                    165
                                        170
271 Ala Ser Gln Ser Val Asp Tyr Asp Gly Asp Ser Tyr Leu Asn Trp Tyr
                180
                                    185
273 Gln Gln Ile Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser
274
            195
                                200
                                                    205
275 Asn Leu Val Ser Gly Ile Pro Pro Arg Phe Ser Gly Ser Gly Ser Gly
                            215
                                                220
277 Thr Asp Phe Thr Leu Asn Ile His Pro Val Glu Lys Val Asp Ala Ala
278 225
                        230
                                            235
279 Thr Tyr His Cys Gln Gln Ser Thr Glu Asp Pro Trp Thr Phe Gly Gly
                    245
                                        250
281 Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Ala Gly Ser
                                    265
283 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ser His His His His
284
                                280
285 His His
      290
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289 <211> LENGTH: 900
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300
302 gct ggc ttg ctg ctg gca gct cag ccg gcc atg gcg cag gtg cag
                                                                         102
303 Ala Gly Leu Leu Leu Ala Ala Gln Pro Ala Met Ala Gln Val Gln
                        15
                                             20
306 ctg cag cag tot ggg gct gag ctg gtg agg cct ggg toc toa gtg aag
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/424,705

DATE: 03/26/2001

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Input Set : A:\Pto.amc